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1.0 INTRODUCTION

1.1 Review of the Year 2022

The Kenyan Agriculture sector continues to play a key role in the Kenyan economy. It employs 40 per cent of the total population and more than 70 per cent of Kenya's rural people. Agriculture accounts for 65 per cent of export earnings and contributes food and nutrition security as well as being the driver of the non-agricultural economy including manufacturing, education, and other social services. Therefore, the importance of agriculture in poverty alleviation cannot be over-emphasised given the widespread poverty prevalent in rural areas.

Just Earth interventions focus on the rural poor and most vulnerable, playing a major role in ensuring food security and economic recovery in rural communities, as an expression of God's heart for the poor - as seen in Psalm 113v5-8. Emphasis is also put on climate-smart agricultural technologies to ensure sustainable food security and household income.

Farming in Kenya is largely rain-fed, making it vulnerable to the negative impacts of climate change and climate variability. 2022 was marked by drought and unpredictability of weather patterns. There was a delay in the onset of the rains that affected farm operations in most of the programme areas. Notwithstanding, our Farmer Field School (FFS) training had a positive impact on productivity and there was a marked increase in crop yields, food security and incomes across Just Earth programme areas

1.2 Just Earth - Who we are

Our Vision ('7 P's')

- Proclamation of Jesus Christ
- ♥ Personal Growth
- ♥ Partnership (to see it grow)
- ♥ Power of God
- Produce increase
- ♥ Prosperity (absentee farmers return home)
- Pastors and leaders re-united in their commitment (through Pastors Essentials Course).



Our Mission

To partner with local churches to bring spiritual, economic, social, and environmental transformation.

Our Core Values

- ➤ A Christ-centred programme based on the conviction that only God can extend His Kingdom which He does through His church.
- Partnership with the local church.
- Individual and community relationships are central to the programme.
- ➤ God's heart for the poor must be woven into the programme what comes from the demonstration plot is to be used to support widows and orphans.
- > Just Earth is not an aid project/programme but a community-driven empowerment initiative.
- ➤ We seek best practice and never to rival the work of existing organisations whose values and work overlap, with ours.
- ➤ We look for sustainable measurable benefits that accrue to the church and community after the initial implementation phase of the project.
- We seek reciprocal partnership based on mutual agreements.

Strategic Pillars

√ Spiritual pillar

A Just Earth Farmer Field School (FFS) is fundamentally founded on the word of God. The theological and spiritual foundations are integrated into farming training through the Kingdom Life Course comprising 9 modules in order to change lives in a holistic way. Farmers are facilitated through this course during their entire two years in a FFS.

√ Social Pillar

This pillar focuses upon the social impacts of the FFS programme within a community in terms of enhanced livelihoods, household assets, orphan, and widow care as well as improved health through better nutrition and food safety.

✓ Economic Pillar

The FFS is a group-based learning experience (a school without walls) in which farmers learn better farming techniques enabling them to achieve higher yields, far greater crop diversity, food and nutrition security, better incomes, and improved quality of life.



✓ Environmental Pillar

Just Earth promotes environmental resilience through awareness, knowledge creation and advocacy; improved access to, and use of, appropriate natural resource management, as well as household climate change adaptation and mitigation technologies for sustainability.

1.3 Kenyan Staff Team

- 1. Mr. Philip Amoi Director of Operations, Administration and Human Resource
- 2. Dr. Rael Taiy Director of Agronomy
- 3. Rev. Laban Otiato Spiritual Pillar Coordinator
- 4. Festus Owuor Field Manager
- 5. Noel Lanya Storehouse Manager and Accounts Clerk
- 6. Hamilton Okoko Driver/Administrative Assistant/Trainer
- 7. Joshua Ouko Commercial Farm Manager
- 8. Reuben Wanyonyi Farm Assistant Maridadi Commercial Farm

1.4 Major outcomes in 2022

- ♣ Eleven FFS were established and commissioned with a total membership of 373. The number of direct beneficiaries from FFS training were 2,611 and 10,444 more people benefitted indirectly through JE farmers sharing their knowledge with farming neighbours.
- Farm judging and documentation was done for 6 FFS and total of 151 farmers were visited.
- Graduation of 165 farmers in 11 FFS
- ♣ Baseline Surveys were carried out in 10 FFS (the 11th FFS in Mara is a unique case)
- ♣ Soil sampling and Analysis done for 4 FFS in new programme areas Ebenezer Kaptama (Kitale Diocese/Bungoma County), Blessed Migingo and Faith Yogo (Maseno East Diocese/Kisumu County) and Canaan Ropile in Narok County.

- Training of 17 new FFS facilitators
- ♣ Planting of 1,377 avocado trees on land provided at the Bishop Muge Mission Centre, Kitale to generate profits to spread FFS in that region
- Seven Field Days where local communities visited FFS demonstration plots to learn from FFS farmers and about the vision and impacts of JE



- One training session for our JE Staff
- Three Staff meetings
- Twelve FFS Facilitators' monthly review meetings
- ♣ Fifteen Pre-FFS training meetings for new 2023 schools
- ♣ The number of trees planted by FFS members during the year was 18,901
- Farmers earned KES 10,258,255 from their sale of crops

2.0 OPERATIONAL ACHIEVEMENTS

The activities undertaken during the year under review are highlighted as follows:

2.1 FFS establishment and commissioning

Establishment and commissioning was carried out in all 11 new FFS across the 7 regions - Maseno East, Mara, Maseno North, Kapsabet, Mumias, Kitale and its newly created Diocese, Kapenguria. Other activities carried out during FFS establishment were baseline surveys and soil sampling where the demo plots had been ploughed. These activities were carried out simultaneously as a cost saving initiative.

S/N	Date Established	Diocese /Region	FFS Name	Church Leader	Facilitators
1	26/1/22	Maseno East	Blessed Migingo	Rev. Washington Odhiambo	Enock Odongo Benjamin Oguyo
2	27/1/22	Maseno East	ast Faith Yogo Rev. John Madote		Josiah Kariuki Dixon Wameda
3	29/1/22	Mara	Canaan Ropile	Pastor Thomas Kimaren	Samwel Odeyo
4	6/2/22	Maseno North	Neema Wandeche	Rev. Victor Bwakali	Merab Otindo Salome Wavinya
5	7/2/22	Kapsabet	Canaan Koyo	Rev. Paul Rop	Benjamin Oguyo James Atulo
6	8/2/22	Mumias	Emmanuel Mung'ang'a	Ven. Alex Lutta	Josephine Amukhale Floice Ounza



7	8/2/22	Mumias	Colossians Kamashia	Rev. Benson Obonyo	Salome Nyamase Josephine Amukhale
8	9/2/22	Mumias	Ephesians Imakale	Rev. Jophias Okumu	Brenda Shikutza Salome Nyamasi
9	10/2/22	Kitale	Eden Namajalala	Rev. Ekweny Jakait	Habel Nyonje Mathew Obina
10	10/2/22	Kitale	Ebenezer Kaptama	Rev. Lydia Chirchir	Francis Obina Jonathan Omusikari
11	11/2/22	Kitale	Canaan Lelan	Rev. Daniel Katome	Benson Chibule Tobias Ambwaya

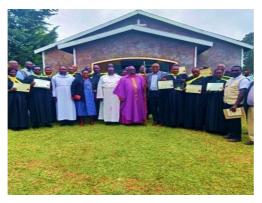
2.2 Graduation of 2nd-Year Farmer Field Schools

Administration of final examinations and FFS graduations were done across the regions in March. A total of 165 farmers graduated as outlined in the table below:

Diocese	Date	Name of FFS	Number	of farmers	
			Male	Female	Total
Migori	3/3/2022	Neema Migori	5	6	11
Mumias	9/3/2022	Canaan Buchifi	2	7	9
		God of Blessings Munami	3	6	9
		Shalom Makunga	0	1	1
		Jerusalem Lubinu	3	7	10
Maseno North	10/3/2022	Good Shepherd Eshiamboko	4	6	10
		Genesis Mwiyenga	3	5	8
Kitale	14/3/2022	Emmaus Kinyoro	20	9	29
	15/3/2022	Neema Kibagenge	6	20	26
	16/3/2022	Baraka Chepareria	6	24	30
Kapsabet	17/3/2022	God is Able Kimaam	15	7	22
TOTAL			67	98	165



The above table shows quite a divergence in graduation performance between regions, with some regions seeing significantly higher proportions of their schools graduating than in others. Spiritual leadership is a key factor in this, which has been monitored during the year, leading to the recruitment of new schools in some regions being halted for 2023, to allow for corrective action to take place.





The Rt Rev. Dr. Paul Korir, Bishop of Kapsabet Diocese presides over the graduation of God is Able Kimaam FFS on 17/3/22

2.3 Training of new facilitators

Training of new facilitators was carried out at the Bishop Muge Mission Centre, Kitale on 27th June to 2nd July 2022. This was necessitated by the plan to have facilitators in every region working closely with the experienced facilitators from Maseno and eventually running the programme in their regions as a cost-saving measure.

A total of 17 facilitators were trained in 5 regions as follows:

Kitale 7
Mumias 4
Kapsabet 3
Maseno North 1
Migori 2

2.4 Planting of Avocados at Bishop Muge Mission Centre Kitale

Grafted Hass avocados were planted on a 9-acre piece of land provided by the Diocese of Kitale at the Bishop Muge Centre from 7-11th June 2022. Following a seismic survey, we installed a new borehole and solar-powered pump with elevated storage tanks. This is connected to a drip-feed irrigation system covering the 9 acres. A total of 1,377 mature avocado seedlings were procured from a certified nursery in Kajiado and planted, and their survival rate is 100%. Desmodium was established between the rows as a cover crop for the control of weeds, prevention of soil erosion and nitrogen fixation. The additional purpose of this planting programme is to enable



us to provide planting material for all our FFS demonstration plots and their farmers as part of our strategy to introduce all our farmers to minimum-tillage planting techniques, which calls for the use of ground cover from desmodium. These techniques dramatically reduce the need for petrochemical fertilisers (which have rocketed in price) and which also significantly reduce the need for labour for soil tillage and weeding.

2.5 Farmer Field Days

The FFS Demonstration Plots hosted farmer field days for disseminating best farming practices as a way of giving back to their communities. The theme of the Field Days was **Farming God's Way for Holistic Transformation**.

A total of 7 Field Days were carried out as follows:

Date	Diocese/Region	Field School	Attendance
14/7/22	Narok	Canaan Ropile	112
20/7/22	Maseno North	Neema Wandeche	82
21/7/22	Maseno East	Blessed Migingo	77
22/7/22	Mumias	Collosians Kamashia	80
26/7/22	Mumias	Emmanuel Mung'ang'a	60
7/9/22	Kitale	Eden Namanjalala	80
8/9/22	Kitale	Ebenezer Kaptama	61

Two Pastors from Mwanza in Tanzania (Henry Kori and Samwel Mashaka) attended the field day at Neema Wandeche in Maseno North with a view to starting JE FFS's in their region.

Sadly, attendance of the field days was generally low as they coincided with the political campaigns building up to the Kenyan General Elections. Many people were caught up in the electioneering mood and chose to attend political rallies instead.

Four FFS did not qualify to host field days. Ephesians Imakale in Mumias, Faith Yogo in Maseno East and Canaan Lelan in Kitale Diocese were severely affected by drought and the maize variety plots in Canaan Koyo, Kapsabet Diocese, were ravaged by the Maize Lethal Necrosis Disease.





Maseno North Diocese - Neema Wandeche FFS



Mara - Canaan Ropile FFS

2.6 A new 'Hybrid' FFS in the Masai Mara

Following an approach to us from First Baptist Church Houston (FBCH), we agreed to start up a new 'hybrid' FFS in a Maasai church community based in the middle of the Maasai Mara. FBCH had been providing cash to its pastor to buy food for this community because the pressure of Mara tourism was restricting their access to land for their cattle. Because they had been living on milk, meat and blood from their cattle for generations, the community did not know how to grow horticultural crops within their more restricted land area.







A plot of land was provided by the community in 2021, and through the generosity of FBCH

we were able to revive an existing borehole, install water storage tanks and electric fencing to protect crops from wild animals. A FFS of 83 local Maasai women was recruited in late 2021 for launch at the outset of 2022 and was provided with one of JE's most experienced FFS facilitators.

It has performed remarkably well and not only are they meeting their own needs for food, but their sale of surpluses





to the hotel trade around the Mara has enabled them to purchase 10 sheep and one goat for their community.

2.7 Staff and FFS Facilitator meetings

During the review period, three staff meetings were held. Staff met on 5/7/22 and 28/9/2022, mainly for planning purposes. Just Earth CEO Pete Tyler met staff in Kisumu on 29/10/11 to discuss their work and appraisals of individual performance. Six facilitators' meetings were held the first Monday of the month and the main agenda was to receive field reports and plan activities for each month. The meetings also provided forums for addressing any emerging challenges in the field.

2.7 Staff training

On 5th July 2022, staff received hands-on training on the use of Zoho financial management tool from Collins Mugodo. They were also capacity built on savings and pension schemes by Fadhili Masitsa from British-American Insurance Company at the Maseno Equator Hotel.

2.8 Monitoring and Evaluation Field Visit/Table Banking training

Monitoring and Evaluation field visits were carried out on 31st May to 13th June 2022. The main objective was to monitor FFS and Kingdom Life implementation. The farmers were also trained in Table Banking as a sustainability strategy to promote the culture of saving and maintain the cohesiveness of FFS members after graduation.



Canaan Lelan – Pauline Lemareng and her husband admire their bumper harvest and are grateful to JE for FFS



Kapenguria Diocese, newly created from Kitale Diocese – Canaan Lelan FFS Demo plot.



2.9 Pre-FFS trainings for new 2023 schools

Fifteen pre-FFS trainings were carried out in preparation for 2023 as follows:

S/N	Date	Diocese/Region	Parish/Local Church	Farmers trained	Remarks
1	29/9/22	Kapsabet	Kapng'etuny	33	Good
2	30/9/22	Kapsabet	Kebulonik	37	Good
3	6/10/22	Maseno North	Nzoia	31	Good
4	7/10/22	Eldoret	Kamagut	31	Good
5	13/10/22	Maseno North	Maragoli	28	Fairly Good
6	18/10/22	Kitale	Maili Saba	16	Low
7	19/10/22	Kitale	Chesito	19	Low
8	20/10/22	Kitale	Osorongai	28	Fairly Good
9	21/10/22	Kitale	Ngonyek	17	Low
10	1/11/22	Maseno East	St. Paul	27	Fairly Good
11	2/11/22	Maseno East	Rabuor	26	Fairly Good
12	3/11/22	Maseno East	Rae	35	Good
13	4/11/22	Maseno East	Chemelil	19	Low
14	10/11/22	Mumias	Mukhweya	23	Fair
15	11/11/22	Mumias	Khaimba	24	Fair

3.0 THE ECONOMIC PILLAR

This pillar captures the crop yields and livestock data from the FFS members' farms while tracking changes in productivity as a result of the trainings received at the FFS.

3.1 Maize Production Trend

Baseline surveys were conducted for all new FFS members' farms prior to commencement of training. Long Rains season crop data was collected by facilitators in all regions by use of a structured questionnaire and farm records. Chart 1 below presents the maize production data and acreage after one year of FFS learning.



Chart 1 indicates that acreage planted with maize in Year 1 reduced from 234 to 191 compared to the baseline. But production still increased from 89 to 168 tonnes. This implies more than double the increase in maize yields from 0.38 tonnes per acre to 0.88 tonnes per acre, on average, across the regions.

This significant improvement in productivity may be attributed to adoption of good agricultural practices learnt by farmers in their FFS and interest-free farm input loans from Just Earth for fertiliser, manure, certified seed and agrochemicals. This support was invaluable because global prices of fertiliser sky-rocketed beyond the reach of vulnerable smallholder farmers.

Farmers received practical training on soil sampling, analysis and application of corrective measures, appropriate climate change adaptation strategies and land management practices at farm level including the use of farmyard and compost manure, incorporation of green manure into the soil, crop rotation, intercropping and control of soil erosion.

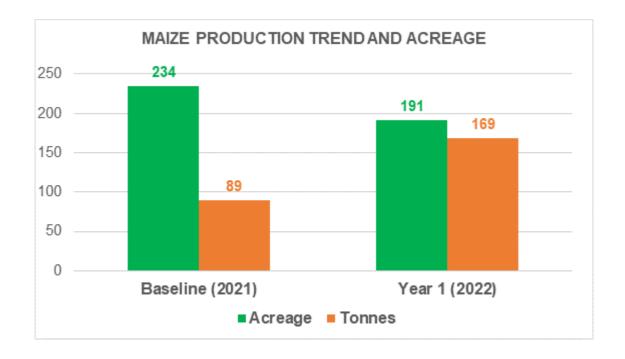


Chart 1: Maize production and acreage trend after 1 year of learning

Table 1 below provides a detailed breakdown of the Pre-FFS maize yields and subsequent achievements over the 1 year of learning, by FFS.



Table 1: Long season maize production for Year 1 FFS

Diocese/ Region	FFS Name	2021	(Baseli	ine)	Year 1 (2022)			
		Acres	Tons	Yield (T/A)	Acres	Tons	Yield (T/A)	
Kitale	Ebenezer Kaptama	26.3	19.9	0.8	20.3	35.6	1.8	
Kitale	Eden Namanjalala	31.3	19.4	0.6	30.0	44.9	1.5	
Kapsabet	Canaan Koyo	32.5	9.3	0.3	29.0	28.0	1.0	
Mumias	Emmanuel Mung'ang'a	15.5	7.2	0.5	13.3	12.7	1.0	
Mumias	Colossians Kamashia	20.8	6.3	0.3	15.3	12.6	0.8	
Mumias	Ephesians Imakale	25.0	6.2	0.2	20.0	11.9	0.6	
Maseno North	Neema Wandeche	26.0	6.1	0.2	21.0	13.7	0.7	
Maseno East	Blessed Migingo	23.5	6.1	0.3	22.5	3.2	0.1	
Maseno East	Faith Yogo	33.5	8.8	0.3	19.8	6.5	0.3	
TOTAL		234.4	89.3	0.4	191.2	169.1	0.9	

While most of our FFS's have seen significant improvements in yields since joining our programme, a severe drought has significantly impacted the yields of our farmers in the Maseno East region. Table 1 shows that yields have actually fallen during the year, which is something we have never experienced before and goes to illustrate the ongoing challenge we face as the effect of climate change gains momentum.

3.2 Income from crop sales

Farmers earned a total of **KES 10,258,255** from sale of surplus and new crops. Maize, beans and vegetables were their main source of income.

Other crops grown by farmers are sorghum, millet and cassava. These are traditional high value crops which should be promoted more vigorously - especially in drought and heat-prone areas such as Maseno East. The ability of these crops to withstand adverse weather conditions is commendable.

Short-season varieties that farmers had not previously embraced in lowlands include lentils and certain varieties of sweet potato. The demonstration plots provide farmers with sweet potato vines sourced from KALRO Alupe in Busia which they then propagate on their farms.

Table 2 presents the income earned from crop sales by farmers.



Table 2: Income earned from crop sales

Name of FFS	Maize	Beans	Sorghum	Millet	Cassava	Potato	Sweet potato	G/Nuts	Veg	Total Income
	KES	KES	KES	KES	KES	KES	KES	KES	KES	KES
Ebenezer Kaptama	1,925,000	91,850	30,000	34,500	0	173,500	0	0	36,600	2,291,450
Eden Namanjalala	2,179,500	50,000	0	11,000	0	2,000	2,000	0	42,670	2,287,170
Canaan Lelan	0	15,250	0	0	800	118,700	0	0	26,150	160,900
Canaan Koyo	1,754,300	67,300	0	7,500	0	17,500	0	6,000	24,180	1,876,780
Emmanuel Mung'ang'a	663,800	11,600	600	0	0	0	9,000	12,100	3,450	700,550
Colossians Kamashia	641,200	31,600	0	0	2,300	0	600	16,000	14,700	674,800
Ephesians Imakale	582,000	18,500	0	0	0	0	8,500	0	3,000	612,000
Neema Wandeche	842,800	23,800	0	0	3,000	0	2,000	700	19,610	891,910
Blessed Migingo	225,090	35,085	15,100	0	0	0	0	0	6,000	299,025
Faith Yogo	400,340	20,480	12,900	0	8,000	0	4,000	0	17,950	463,670
TOTAL	9,214,030	365,465	58,600	53,000	14,100	311,700	26,100	34,800	194,310	10,258,255

3.3 Livestock Data

Livestock and crop farming are practised in all programme regions. FFS training focuses on pasture and fodder production and general livestock management issues, including feeding, housing, breeding, and disease control. Chicken and dairy farming remain the key livestock enterprises.

Table 3: Livestock data

S/N	Region Diocese	Name of FFS	Livestock Data					
			Cattle	Sheep	Goats	Chicken	Pigs	Beehives
1	Kitale	Ebenezer Kaptama	80	44	11	212		9
2	Kitale	Eden Namanjalala	24	24	3	68		0



3	Kitale	Canaan Lelan	279	383	37	437		2
4	Kapsabet	Canaan Koyo	50	18	5	122		
5	Mumias	Emmanuel Mung'ang'a	39	4	4	243	3	0
6	Mumias	Colossians Kamashia	32	2	7	234	3	1
7	Mumias	Ephesians Imakale	29			178		0
8	Maseno North	Neema Wandeche	43	6	24	212		0
9	Maseno East	Blessed Migingo	43	46	19	277		0
10	Maseno East	Faith Yogo	71	138	45	266		0
	TOTAL		690	665	155	2,249	6	12

All demonstration plots have a major component through livestock pastures and fodders including fodder legumes and fodder trees. Livestock provides the bulk of manure that is used in crop farming. Crop residues, such as maize stovers, are used to prepare livestock rations. The number of livestock kept by FFS members is presented in Table 3 above.

4.0 THE ENVIRONMENTAL PILLAR

To promote environmental resilience, promotion of tree planting was done in all programme areas. Each farmer was encouraged to plant 25 trees of which 5 were required to be fruit, in order to improve household nutrition. Farmers were also trained upon other household climate change adaptation strategies, such as organic farming, soil erosion control, contour farming, mulch farming, conservation tillage, planting of fallow crops and grazing land management.

4.1 Tree Planting

A total of **18,901** trees were planted by FFS members, bringing the total of trees planted through Just Earth intervention to **168,605**

A breakdown of the total trees planted by FFS's is presented in Table 4 below:



Table 4: Tree planting by farmers

S/N	Region/ Diocese	FFS Name		Trees Pl	anted in	2022	
			Indigenous	Exotic	Fruit	Agro- forestry	Total
1	Kitale	Ebenezer Kaptama	772	974	190	567	2,503
2	Kitale	Eden Namanjalala	492	1,675	258	702	3,120
3	Kitale	Canaan Lelan	610	398	166	656	1,830
4	Kapsabet	Canaan Koyo	523	1,088	205	360	2,176
5	Mumias	Emmanuel Mung'ang'a	398	510	313	171	1,372
6	Mumias	Colossians Kamashia	854	1,282	281	176	2,593
7	Mumias	Ephesians Imakale	220	927	69	185	1,416
8	Maseno North	Neema Wandeche	501	631	260	298	1,690
9	Maseno East	Blessed Migingo	348	99	278	479	1,204
10	Maseno East	Faith Yogo	400	226	125	246	997
	TOTAL		5,118	7,810	2,145	3,840	18,901



Just Earth Founder Director Rev. Bruce Collins plants a tree during his visit to Blessed Migingo FFS, Maseno East on 11/5/22



Trees grown alongside crops on Mrs Benter Odida's kitchen garden – Blessed Migingo FFS, Maseno East

4.2 Climate Alteration Adaptation Strategies

Table 5 below presents some of the climate change farm level adaptation strategies that farmers adopted in 2022, which also helped in soil and water conservation.



Table 5: Climate Change Adaptation Strategies

S/N	Diocese Region	Name of FFS	Climate Change adaptation strategies							
			Terraces	Contours	Fallow crops	Compost FYM	Zero Tillage	Mulching		
1	Kitale	Ebenezer Kaptama	5	6	3	8	2	7		
2	Kitale	Eden Namanjalala	4	3	4	12	4	5		
3	Kitale	Canaan Lelan	6	5	1	14	0	0		
4	Kapsabet	Canaan Koyo	1	4	1	2	0	4		
5	Mumias	Emmanuel Mung'ang'a	6	6	4	12	1	6		
6	Mumias	Colossians Kamashia	8	10	6	15	1	13		
7	Mumias	Ephesians Imakale	8	2		9		2		
8	Maseno North	Neema Wandeche	13	8	5	16	10	8		
9	Maseno East	Blessed Migingo	14	2	2	9	1	7		
10	Maseno East	Faith Yogo	17	5	3	14	3	57		
	TOTAL		82	51	29	111	22	109		

The most adopted climate change adaptation strategy was the use of compost and farmyard manure, mulching and the use of terraces to control soil erosion.

5.0 SOCIAL PILLAR

Farm Judging and documentation of outcomes was undertaken in all FFS's recruited in 2020 due for graduation, in order to evaluate the impact of Just Earth interventions at farm level. This activity ascertained the level of technology transfer from the demonstration plot to the households where farm practices trigger transformation by



enabling the FFS participants to be self-sufficient in food and nutrition security, increased income, conserved the environment, and reached out to their neighbours. It also brought out testimonies of spiritual development through the Kingdom Life Course and evidence of how the FFS and individual farmers provided support to vulnerable members of the community as envisaged in the Spiritual Pillar of Just Earth.

In all programme areas, there were success stories of improved livelihoods, especially for farmers who attended FFS training regularly and adopted the appropriate technologies they'd been taught.

A total of **151** farmers were visited as detailed in the following table:

Diocese/Region	FFS Name	Number of farms visited
Maseno North	Genesis Mwiyenga	17
Mumias	Shalom Makunga	13
Mumias	Jerusalem Lubinu	20
Kitale	Emmaus Kinyoro	35
Kitale	Baraka Chepareria	36
Kapsabet	God is Able Kimaam	30
TOTAL		151

Sample stories from the farms visited are presented below:

5.1 Shadrack Rono, God is Able Kimaam FFS - Kapsabet

Shadrack Rono is a member of God is Able Kimaam FFS. His local church is ACK St. Joseph's Kabirer, Kimaam Parish, Kapsabet Diocese. Aged 37 years, Rono is married with 2 children. He owns 1 acre of land. Before joining FFS, he used to harvest 3 (90kg) bags of maize from the half-acre he used to grow maize. After FFS training, he learnt how to make and utilise Farmyard and Compost Manure which has tripled his maize yield to 9 bags from his farm. He has also planted, banana, avocado and tea. To utilise his acquired knowledge, he diversified into horticulture and grows cabbage, tomato, and local vegetables for sale on a piece of land hired from a neighbour, where he uses irrigation and mulching during the dry season.

To conserve the environment, he has planted 150 trees since joining FFS, which is a mix of exotic (Blue Gum and wattle), indigenous (Syzigium) and fruit (Fuerte avocado).



Rono keeps 2 cows, goats, and some indigenous chickens. From the sale of his crops, Rono has put up livestock structures and bought 8 dairy goats, a chaff cutter, and a maize milling machine to generate income.







Dairy Goats

Rono's vegetable farm

Maize mill bought in 2021 from farm produce sales

Rono says that he and his wife are now fully employed on the farm, and he is grateful to Just Earth for the knowledge he has and farm inputs for maize farming. He has trained several neighbours and 3 have adopted good agricultural practices in vegetable growing and climate change adaptation practices such as mulching and intercropping.

His testimony on the Kingdom Life Course is touching. He says the course has enabled him to learn how to share his farm produce with those who have no food and live well with his neighbours.

5.2 Rael Korir – God is Able Kimaam, Kapsabet

Rael Korir is a member of God of is Able Kimaam FFS. Her local church is ACK St. Michael and All Angels Kabongwa, Kimaam Parish, Kapsabet Diocese. Aged 51, Rael is married with 2 children. Through FFS training, Rael has adopted good agricultural practices that has improved maize yields in a quarter acre from 3 to 10 (90kg) bags. She engages in tissue culture banana farming; vegetable growing and applies recommended techniques - e.g., use of multi-storey kitchen gardens for climate change adaptation. Income from sale of farm produce and FFS training has enabled Rael to start a pig-keeping project. She uses manure from the piggery to produce biogas for use in her kitchen.

Rael is grateful for the Kingdom Life Course which she says has made her a more responsible steward of God's resources. As a Lay Reader in the Anglican Church, Rael says the course has equipped her with more knowledge of God and His word, which enables her to reach out to more people. FFS training has made her a role model in her community, and she has trained more than 50 people on her farm.





Rael's Tissue Culture bananas



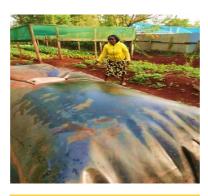
Strawberries growing on a multi-storey garden



Organic vegetables fed on biogas plant manure



Rael established her pig project with income from sale of her crops



Pig manure produces Biogas



Cheaper and cleaner biogas makes life better in the kitchen

5.3 Albert Ashitiva – Genesis Mwiyenga, Maseno North

Albert Ashitiva is a member of Genesis Mwiyenga FFS. His local church is St. Andrews Embale, Mwiyenga Parish, Maseno North Diocese. Aged 48, Ashitiva is married with 2 children. FFS farming has equipped Ashitiva with good farming skills. Before joining FFS, he used to harvest 8 (90kg) bags per acre. After receiving FFS training, his maize yield increased to 18 bags per acre. He attributes this to skills he has acquired on preparation and utilisation of compost manure, as well as correct plant spacing. The farmer has diversified into growing of vegetables such as Kales, black nightshade, cow peas and crotalaria for consumption and income generation. From crop sales he educates his two children in secondary school and has cemented and extended his house.

Ashitiva is also a livestock farmer who keeps cows and geese. To prevent soil erosion, he has made terraces across his farm and planted Napier grass along the terraces which he uses to feed his cows. He has also planted 60 indigenous trees to conserve the environment.





Compost making and utilization has increased farm productivity



Income from sale of farm produce has enabled Ashitiva to put up a better house next to his old house

5.4 Rebecca Lottee - Baraka Chepareria FFS, Kapenguria

Rebecca is married to Francis Lottee, a member of Baraka Chepareria FFS, Kapenguria Diocese. Through the FFS training received by her husband, Rebecca has acquired skills in management of chickens, dairy cows, and goats. She keeps records to monitor the profitability of her farm. Among the records kept are crop expenses, daily milk production data and vaccination schedules for her chickens.

The couple has also learnt about making and utilising compost manure, spacing of crops, intercropping. Their maize yield has increased from 5 to 12 (90kg) bags per acre. They have established Napier grass, Rhodes grass and hedges of protein rich Calliandra and Sesbania fodder trees for feeding their livestock. Maize husks are preserved too for dry season feeding as a strategy for climate change adaptation.

The Kingdom Life Course received by her husband and shared with her has helped them grow spiritually and live well with other people.



Maize stalks for dry season feeding



Calliandra as a source of livestock protein



Fruit trees for nutrition and environmental conservation



6.0 SPIRITUAL PILLAR

This pillar is fundamental to Just Earth's FFS implementation, as we partner with the local church, church leaders become the key facilitators of the spiritual pillar in all the FFS's. They facilitate the Kingdom Life Course and make pastoral visits to the farmers in their homes, sometimes accompanied by Just Earth facilitators.

While challenges remain, we are making significant progress with this Pillar, Rev Laban Otiato, our new Spiritual Coordinator, has been making extensive visits to each region to work with their Pastors Essentials Coordinators, church leaders and farmers. His initial focus has been on ensuring that the Kingdom Life Course is delivered more effectively. Some Bishops and other senior church leaders are now



A FFS Leader distributing food to the less fortunate

working more closely with FFS's in their region, and we are optimistic that considerably further progress will be made in this regard in 2023.

The main activities undertaken under this pillar were:

- ♣ Kingdom Life Review workshops 2
- Pastors Essentials Workshops
 2
- Monitoring and evaluation field visits

The church leaders ensure that 80 per cent of the income from sales of crops from the demonstration plots are used to support the vulnerable - mainly orphans and widows. The beneficiaries are members of the community where the FFS is located, identified by FFS members. Reports from the field indicate that the support provided is either in the form of food, school fees or money to purchase household items.

Table 6 highlights the income acquired by FFS members from sale of demonstration plot produce in 2022 and how 80% of that income was utilised.

Table 6: Demo plot income and Utilisation

Diocese/ Region	Name of FFS	Income from demo plot	80% remitted to church	How the 80% was utilized
Maseno East	Faith Yogo	10,200	8,160	Support the needy
Maseno East	Blessed Migingo	6,355	5,085	Support needy family



Maseno North	Neema Wandeche	8,720	6,970	Support the poor
Mumias	Emmanuel Mung'ang'a	27,000	19,200	Support vulnerable families
Mumias	Ephesians Imakale	3,615	2,890	Assist needy child
Mumias	Colossians Kamashia	5,910	4,430	Support the needy
Kapsabet	Canaan Koyo	9,030	7,170	Help an orphan
Kitale	Ebenezer Kaptama	13,050	10,440	Assist Orphans
Kitale	Eden Namanjalala	16,230	12,984	Assist an orphan
Kitale	Canaan Lelan	7,800	6,420	Support the elderly
Narok	Canaan Ropile	55,385	55,245	Purchase 11 sheep and 1 goat
	TOTAL	163,295	138,994	

7.0 2022 CHALLENGES

2022 has seen a number of challenges both within and without Just Earth's ability to influence and control, the key ones being:-

- ❖ Negative effects of climate change and climate variability resulting in erratic rains, crop pests, diseases, and now significant periods of drought, which has had a real impact on JE farmers in many regions. Maseno East, in particular, was badly impacted by drought, which explains some of the reported output figures above. This is being mitigated/managed through application of on-farm adaptation and mitigation strategies such as tree planting, use of appropriate crop varieties, crop rotation, intercropping, mulching, ridging etc. Zero- or minimum-tillage planting techniques, organic farming, and transition from rainfed to irrigated agriculture would provide a lasting solution.
- Significantly higher cost of farm inputs as a result of global inflation. Farmers are being advised to embrace organic farming by utilising farmyard manure and compost manure which will substantially reduce their input costs.
- ❖ Variable (good/average/poor) FFS attendance, attributable to



- time management among FFS members across all regions.
- Weakness in the local recruitment process of FFS members (process, timing, quality/criteria of selection).

Church leaders need further training on recruitment guidelines in advance of FFS recruitment process. For the on-going FFS, concerted effort is being employed by Church leaders, Just Earth staff and Facilitators to address this issue.

Variable (good/average/poor) loan repayments by churches and inadequate reporting/updating attributable to perceptions, expectations, provision methodology and discipline; impacted by consequences of drought and increased input costs.

There is need for dialogue and quarterly updates on loan repayments to assist in planning. We knew that introducing our new loan scheme administered by the senior church authorities for their respective farm schools in 2022 would very likely have significant teething problems.

Firm action is being taken to ensure that loans are repaid before the end of this year, with data for repayment throughout 2022 to be published in the first quarter of 2023. We remain convinced that taking this step was essential, both because repayment of loans is ultimately a spiritual issue, and secondly the proliferation of new FFS cannot be accompanied by the need for JE staff to pursue individual farmers for repayment of their loans.

8.0 Going forward into 2023

At the close of 2022, we anticipate 2023 to be a year that will see key strategic progress, with the following as some of the expected highlights:-

- ✓ Mitigating continuing climate impact through water resourcing/usage/ preservation, consideration of current models, and use of drought tolerant crops/varieties
- ✓ Offsetting inflationary pressures through use of rejuvenation techniques and recycling
- ✓ Increased Farm School attendance through improved recruitment, training, and support
- ✓ Improved loan repayment with embedding of the recently changed model through closer, accountable partnership
- ✓ Continued strengthening of the spiritual pillar of our work through our Kingdom Life and Pastors' Essentials Courses (see 6 above); with promotion and celebration of the various Kingdom impacts (people coming to faith, healing



testimonies, gifts made to churches, and wider community influence and impacts).

- ✓ Implementation of quarterly partner reviews process with each regional leadership.
- ✓ Increased marketing and media programmes
- ✓ Expansion of the Just Earth partner/donor base
- ✓ Governance to underpin the above.

As always, we are hugely grateful to all our generous partners for their wonderful support and pray that the Lord will bless each for their generosity.

Please continue to pray for our JE team, the churches, and farmers that we serve. Please pray especially for grace that we will follow the Lord's leading as closely as possible because we know His desire to see more and more rural families helped to partner with Him to be raised out of poverty into sustainable futures.

The Just Earth Team December 2022

